

549,448

PCT/PTO 22 JUN 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number
WO 2004/056344 A1

(51) International Patent Classification⁷: **A61K 9/22**,
31/7048

(21) International Application Number:
PCT/EP2003/014755

(22) International Filing Date:
22 December 2003 (22.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0230034.1 23 December 2002 (23.12.2002) GB

(71) Applicant (for all designated States except US): **SANDOZ GMBH** [AT/AT]; Biochemiestrasse 10, A-6250 Kundl (AT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ROHRA, Rakhi, H.** [IN/IN]; 26/685, Yashodeep Co. Hou. Soc., Nehru Nagar, Kurla (East), Mumbai, 400024 Maharashtra (IN). **TUSHAKIRAN, Mallika** [IN/IN]; B-3 Sai Niketan, Sai Baba Complex, Ciba Road, Goregaon (East), Mumbai 400063, Maharashtra State (IN). **DOSHI, Chetan** [IN/IN]; C-3, 403, Veenasagar, Co-Operative Housing Society, Lal Bahadur Shastri Marg, Mulung (West),

Mumbai 400 080 (IN). **KHANAPURE, Virendra, M.** [IN/IN]; A-1/301, Hyde Park Regency Co-Op Housing Society, B/H Greenwood Complex, Ghodbandar Road, Thane (west), 400607 (IN). **NAMBIAR, Dinesh** [IN/IN]; 203/13B- 1 Shantiniketan, Kanderpada, Dahisar West, Mumbai 400068 (IN). **ZEISL, Erich** [AT/AT]; Wiesing 74b, A-6200 Wiesing (AT).

(74) Agent: **GRUBB, Philip**; Novartis AG, Corporate Intellectual Property, CH-4002 Basel (CH).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SE, SG, SK, SY, TJ, TM, TN, TR, TT, UA, US, UZ, VC, VN, YU, ZA, ZW.

(84) Designated States (*regional*): Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SLOW RELEASE FORMULATION OF CLARITHROMYCIN**

(57) Abstract: The invention relates to an orally administrable pharmaceutical composition comprising an alginate matrix consisting of a water-soluble alginate salt and a complex salt of alginic acid, a macrolide, and an inorganic salt characterized in that the inorganic salt is capable of donating a proton and has a pK_a value in water of 4.0 to 9.0.

WO 2004/056344 A1